



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 210G E01 CE520042

Component
Hydraulic System

Fluid
CHEVRON RANDO HD46/TRC UTF RED PLUS 10W (--- GAL)

RECOMMENDATION

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR06195891	TR06145859	---
Sample Date		Client Info		20 May 2024	29 Mar 2024	---
Machine Age	hrs	Client Info		18506	18279	---
Oil Age	hrs	Client Info		314	87	---
Filter Age	hrs	Client Info		89	301	---
Oil Changed		Client Info		Not Changd	Not Changd	---
Filter Changed		Client Info		Not Changd	Not Changd	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	4	4	---
Chromium	ppm	ASTM D5185m	>10	4	3	---
Nickel	ppm	ASTM D5185m	>10	0	0	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>10	<1	0	---
Lead	ppm	ASTM D5185m	>10	0	0	---
Copper	ppm	ASTM D5185m	>75	2	<1	---
Tin	ppm	ASTM D5185m	>10	0	0	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

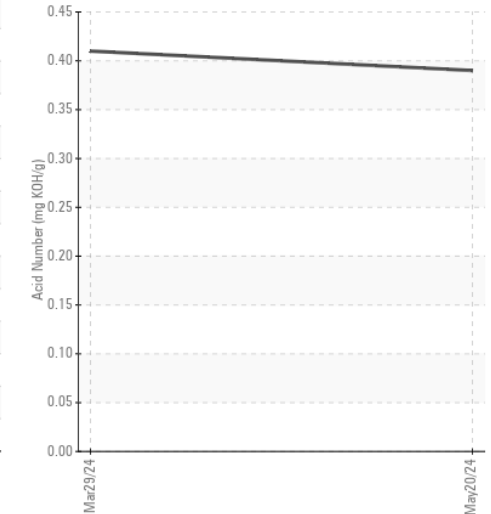
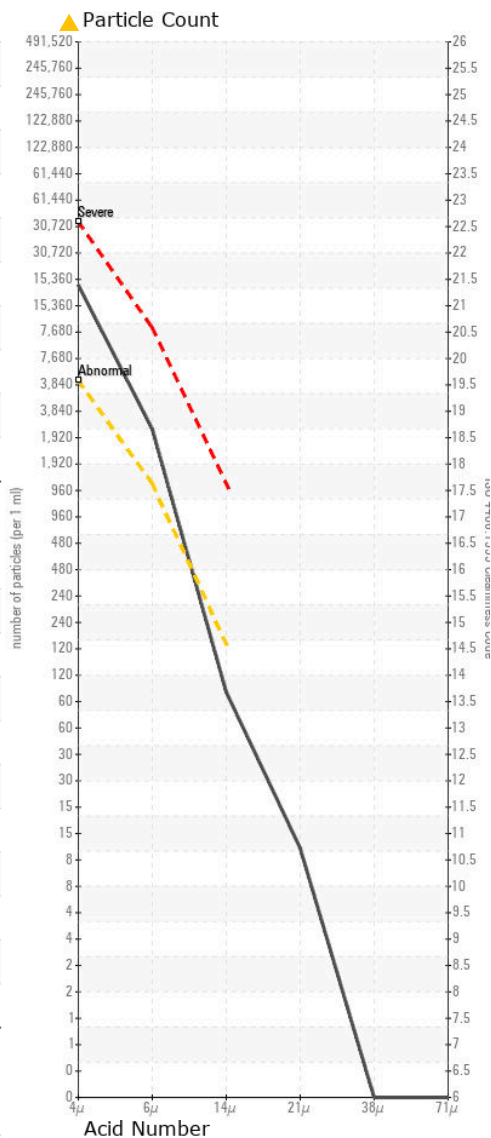
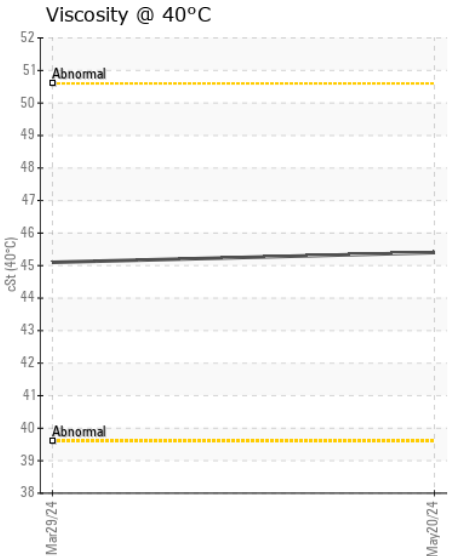
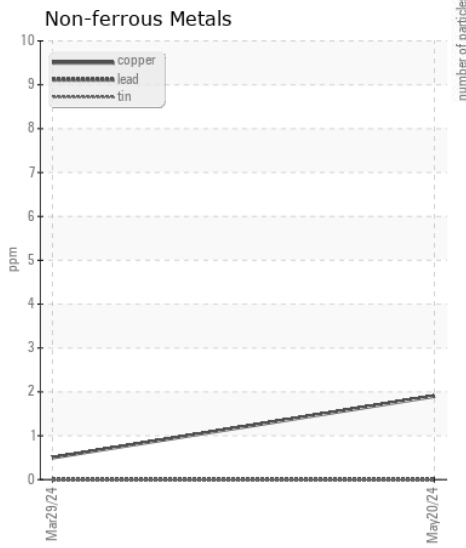
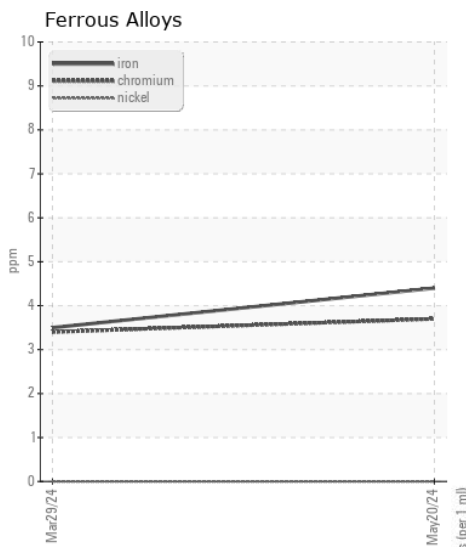
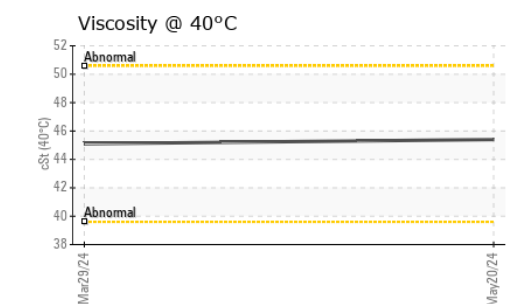
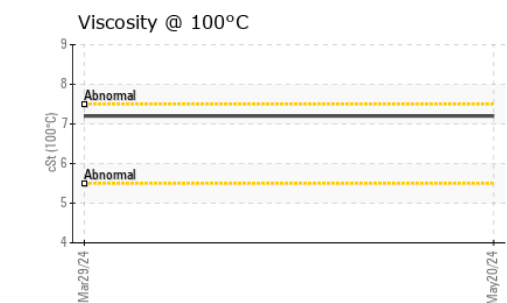
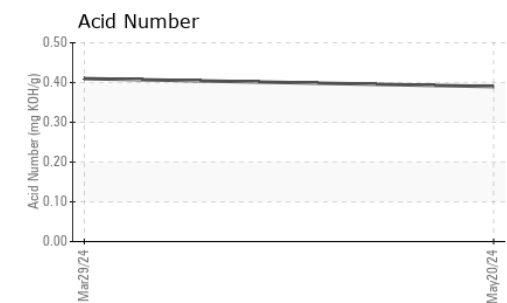
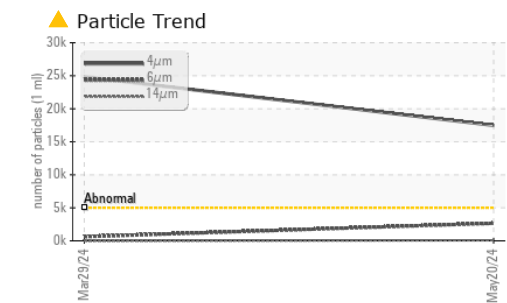
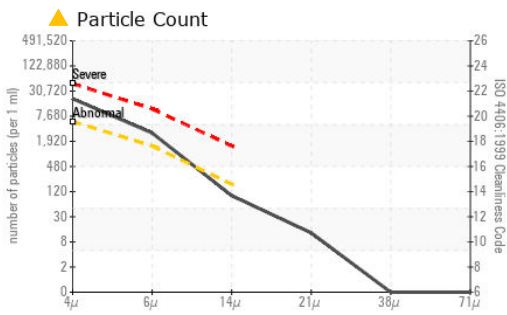
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	6	4	---
Potassium	ppm	ASTM D5185m	>20	<1	0	---
Water		WC Method	>0.1	NEG	NEG	---
Particles >4µm		ASTM D7647	>5000	▲ 17485	▲ 24839	---
Particles >6µm		ASTM D7647	>1300	▲ 2657	627	---
Particles >14µm		ASTM D7647	>160	85	5	---
Particles >21µm		ASTM D7647	>40	11	1	---
Particles >38µm		ASTM D7647	>10	0	0	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 21/19/14	▲ 22/16/10	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	---

FLUID CONDITION

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Sodium	ppm	ASTM D5185m		1	<1	---
Boron	ppm	ASTM D5185m		11	3	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		<1	0	---
Manganese	ppm	ASTM D5185m		0	0	---
Magnesium	ppm	ASTM D5185m		7	8	---
Calcium	ppm	ASTM D5185m		454	192	---
Phosphorus	ppm	ASTM D5185m		441	370	---
Zinc	ppm	ASTM D5185m		562	439	---
Sulfur	ppm	ASTM D5185m		1634	1286	---
Acid Number (AN)	mg KOH/g	ASTM D8045		0.39	0.41	---
Visc @ 40°C	cSt	ASTM D445		45.4	45.1	---
Visc @ 100°C	cSt	ASTM D445		7.2	7.2	---
Viscosity Index (VI)	Scale	ASTM D2270		119	120	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TR06195891 **Received** : 30 May 2024
Lab Number : 06195891 **Tested** : 02 Jun 2024
Unique Number : 11058014 **Diagnosed** : 02 Jun 2024 - Wes Davis
Test Package : MOB 2 (Additional Tests: KV100, VI)

To discuss this sample report, contact Customer Service at 1-800-827-0711.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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